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Notice

Ernst & Young ("EY") was engaged on the instructions of National Disability Insurance Agency ("NDIA") to assist in undertaking technical research and analysis to support the Specialist Disability Accommodation ("SDA") Pricing Review ("Project"), in accordance with the contract dated 26 September 2022.

The results of Ernst & Young's work, including the assumptions and qualifications made in preparing the report, are set out in Ernst & Young's report dated 12 May 2023 ("Report"). The Report should be read in its entirety including this notice, the applicable scope of the work and any limitations. A reference to the Report includes any part of the Report. No further work has been undertaken by Ernst & Young since the date of the Report to update it.

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We highlight that our analysis and Report do not constitute investment advice or a recommendation to you on a future course of action. We provide no assurance that the scenarios we have modelled will be accepted by any relevant authority or third party.

Our conclusions are based, in part, on the assumptions stated and on information from both publicly available information and other sources used during the course of the engagement. The modelled outcomes are contingent on the collection of assumptions as agreed with NDIA and no consideration of other market events, announcements or other changing circumstances are reflected in this Report. Neither Ernst & Young nor any member or employee thereof undertakes responsibility in any way whatsoever to any person in respect of errors in this Report arising from incorrect information provided by the NDIA or other information sources used.

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Executive Summary

Purpose and Findings

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Purpose

Ernst & Young ("EY") has been engaged by the National Disability Insurance Agency ("NDIA") to assist in undertaking technical research and analysis to support the Specialist Disability Accommodation ("SDA") Pricing Review. This report will examine land costs as a key input to assist the NDIA in developing new SDA benchmark prices. Further information on the SDA Pricing Review can be found on the NDIS website (NDIS website).

Land Cost Method

- ▶ Land area assumptions are based on analysis of planning controls and advice provided by Kennedy Associates Architects, "KAA".
- ► Analysis of land costs was based on CoreLogic market trends data to estimate the land cost at an SA4 level. CoreLogic data includes improved (land and building) and unimproved (land only) market transactions.
- ► EY adopted the 25th percentile data values as agreed with the NDIA ,to reflect the lower value of unimproved sites or lower value improved sites which may be more suitable for redevelopment.
- ▶ Analysis of land cost data was limited by three key factors:
 - 1. Valuer General data: EY was unable to obtain current Valuer General data as each State and Territory publishes different reports to varying levels of granularity. Several avenues to source this data were investigated including procuring the data from CoreLogic however no reliable data was able to be obtained. Without the Valuer General data, analysis was limited to the CoreLogic data which includes both unimproved and improved market transactions.
 - 2. Granularity of data: Land costs vary significantly across SA4 regions therefore assessing data and developing land cost estimates at an SA3 level may be more appropriate. While this was the intention through our initial methodology, the data analysed did not allow for this. Through the process of removing outliers in the CoreLogic market trends data, some SA3 areas had limited data points remaining to determine an average value with a high degree of confidence. The absence of Valuer General data did not allow for further analysis to support the CoreLogic data at an SA3 level.
 - 3. **Market volatility:** The economic conditions and market trends over the past three years have contributed to increased market volatility in land prices. For example the CoreLogic 36 month change in median sales prices to December 2022 shows an average national increase of 15.3% annually, which is irregular growth when compared with the 20 year average annual growth of 7.0%. Within the national averages there is volatility at an SA4 level, with *Sydney Northern Beaches* sales prices decreasing 6.4% and *QLD Wide Bay* increasing 25.6% over the same 12 month period to December 2022. As such, analysis of the previous 12 months transaction data may not be reflective of current and short to medium term land costs.

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Land Cost Findings

- ► The national average annual 5 year compound growth rate in median transaction (improved and unimproved) values is 7.8% based on CoreLogic data. Across SA4 regions this ranged from 2.2% to 15.8% of average annual growth based on CoreLogic data.
- ► The estimated median capital city land cost is \$1,136 per square meter based on our analysis of CoreLogic data as at December 2022. Table 1 on the following pages provides a summary of the estimated residential value per square meter for each SA4 region per our analysis of CoreLogic 25th percentile residential sales (improved and unimproved) data.

Land Cost Results

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Table 1 provides a summary of the estimated residential value as at December 2022 per square meter for each SA4 region per our analysis of CoreLogic 25th percentile residential sales (improved and unimproved) data. Using the 25th percentile rather than median represents the likely average cost of land to a developer within each SA4 region and reduces the limitation of CoreLogic data including improved sales. It also provides the average annual growth rate of residential sale prices over the last 5 years at an SA4 level.

Table 1: Estimated Residential Values per Square Meter

| SA4 | Classification | Value | Land Size (sqm) | \$/sqm | Average Annual Growth Rate |
|--|----------------|-------------|-----------------|---------|-------------------------------|
| New South Wales | | | | | |
| Capital Region | Outer Regional | \$717,375 | 2,066 | \$347 | 12.2% |
| Central Coast | Inner Regional | \$814,909 | 931 | \$875 | 8.6% |
| Central West | Outer Regional | \$547,500 | 2,820 | \$194 | 10.8% |
| Coffs Harbour - Grafton | Outer Regional | \$754,500 | 2,674 | \$282 | 10.8% |
| Far West and Orana | Remote | \$284,100 | 3,143 | \$90 | 8.1% |
| Hunter Valley exc Newcastle | Outer Regional | \$605,925 | 1,745 | \$347 | 9.7% |
| llawarra | Outer Regional | \$799,188 | 663 | \$1,206 | 8.0% |
| Mid North Coast | Outer Regional | \$641,125 | 2,143 | \$299 | 10.7% |
| Murray | Outer Regional | \$368,225 | 2,222 | \$166 | 9.9% |
| New England and North West | Outer Regional | \$384,750 | 2,886 | \$133 | 7.6% |
| Newcastle and Lake Macquarie | Outer Regional | \$706,806 | 740 | \$955 | 8.8% |
| Richmond - Tweed | Outer Regional | \$939,852 | 1,796 | \$523 | 12.0% |
| Riverina | Outer Regional | \$386,766 | 2,614 | \$148 | 10.0% |
| Southern Highlands and Shoalhaven | Outer Regional | \$840,438 | 2,104 | \$399 | 10.1% |
| Sydney - Baulkham Hills and Hawkesbury | Inner Regional | \$1,686,006 | 1,397 | \$1,207 | 5.8% |
| Sydney - Blacktown | Major City | \$765,393 | 614 | \$1,246 | 4.9% |
| Sydney - City and Inner South | Major City | \$1,526,100 | 245 | \$6,228 | 2.9% |
| Sydney - Eastern Suburbs | Major City | \$2,460,250 | 405 | \$6,081 | 6.3% |
| Sydney - Inner South West | Major City | \$1,073,339 | 578 | \$1,858 | 4.0% |
| Sydney - Inner West | Major City | \$1,788,341 | 486 | \$3,683 | 4.8% |
| Sydney - North Sydney and Hornsby | Inner Regional | \$2,020,893 | 803 | \$2,517 | 4.8% |
| Sydney - Northern Beaches | Major City | \$2,207,500 | 785 | \$2,811 | 6.8% |

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| SA4 | Classification | Value | Land Size (sqm) | \$/sqm | Average Annual Growth |
|--|----------------|-------------|-----------------|---------|--------------------------|
| Sydney - Outer South West | Inner Regional | \$784,417 | 1,108 | \$708 | 5.6% |
| Sydney - Outer West and Blue Mountains | Inner Regional | \$799,602 | 1,303 | \$614 | 6.0% |
| Sydney - Parramatta | Major City | \$1,052,800 | 609 | \$1,728 | 3.6% |
| Sydney - Ryde | Major City | \$1,726,250 | 798 | \$2,164 | 5.4% |
| Sydney - South West | Major City | \$832,438 | 742 | \$1,122 | 5.4% |
| Sydney - Sutherland | Major City | \$1,333,438 | 702 | \$1,899 | 4.9% |
| Victoria | | | | | |
| Ballarat | Outer Regional | \$492,650 | 1,529 | \$322 | 13.0% |
| Bendigo | Outer Regional | \$577,875 | 1,690 | \$342 | 11.6% |
| Geelong | Inner Regional | \$551,667 | 725 | \$761 | 11.4% |
| Hume | Outer Regional | \$442,171 | 3,070 | \$144 | 13.0% |
| Latrobe - Gippsland | Inner Regional | \$463,341 | 2,310 | \$201 | 12.7% |
| Melbourne - Inner | Major City | \$1,305,083 | 412 | \$3,170 | 2.8% |
| Melbourne - Inner East | Major City | \$1,506,875 | 752 | \$2,003 | 2.2% |
| Melbourne - Inner South | Major City | \$1,133,000 | 595 | \$1,903 | 3.9% |
| Melbourne - North East | Major City | \$781,575 | 1,282 | \$609 | 4.5% |
| Melbourne - North West | Inner Regional | \$694,550 | 2,141 | \$324 | 5.2% |
| Melbourne - Outer East | Major City | \$829,292 | 1,570 | \$528 | 4.3% |
| Melbourne - South East | Inner Regional | \$719,795 | 952 | \$756 | 4.9% |
| Melbourne - West | Major City | \$591,107 | 582 | \$1,016 | 4.4% |
| Mornington Peninsula | Major City | \$976,920 | 1,557 | \$628 | 8.2% |
| North West | Outer Regional | \$294,850 | 2,799 | \$105 | 11.8% |
| Shepparton | Outer Regional | \$392,188 | 2,089 | \$188 | 12.7% |
| Warrnambool and South West | Outer Regional | \$458,750 | 1,916 | \$239 | 14.0% |
| Northern Territory | | | | | |
| Darwin | Major City | \$478,810 | 826 | \$580 | 3.4% |
| Northern Territory - Outback | Remote | \$415,781 | 2,754 | \$151 | 3.8% |

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| SA4 | Classification | Value | Land Size (sqm) | \$/sqm | Average Annual Growth Rate |
|-----------------------------------|----------------|-------------|-----------------|---------|-------------------------------|
| Western Australia | | | | | |
| Bunbury | Outer Regional | \$348,269 | 1,170 | \$298 | 5.2% |
| Mandurah | Inner Regional | \$362,500 | 1,076 | \$337 | 4.7% |
| Perth - Inner | Major City | \$1,316,038 | 583 | \$2,255 | 6.3% |
| Perth - North East | Major City | \$451,426 | 854 | \$529 | 4.0% |
| Perth - North West | Major City | \$508,651 | 580 | \$877 | 4.5% |
| Perth - South East | Inner Regional | \$497,474 | 818 | \$608 | 4.0% |
| Perth - South West | Major City | \$528,146 | 702 | \$752 | 4.8% |
| Western Australia - Outback South | Remote | \$331,571 | 1,031 | \$322 | 12.2% |
| Western Australia - Outback North | Remote | \$227,855 | 2,281 | \$100 | 5.8% |
| Western Australia - Wheat Belt | Outer Regional | \$370,708 | 3,047 | \$122 | 4.6% |
| Australian Capital Territory | | | | | |
| Australian Capital Territory | Major City | \$684,117 | 829 | \$826 | 9.3% |
| Tasmania | | | | | |
| Hobart | Major City | \$691,260 | 1,618 | \$427 | 13.3% |
| Launceston and North East | Outer Regional | \$433,286 | 2,854 | \$152 | 14.7% |
| South East | Outer Regional | \$578,250 | 7,984 | \$72 | 15.8% |
| West and North West | Outer Regional | \$343,227 | 1,601 | \$214 | 13.3% |

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| SA4 | Classification | Value | Land Size (sqm) | \$/sqm | Average Annual Growth Rate | | | |
|---|----------------|-------------|-----------------|---------|-------------------------------|--|--|--|
| Queensland | | | | | | | | |
| Brisbane - East | Major City | \$711,123 | 922 | \$772 | 9.2% | | | |
| Brisbane - North | Major City | \$725,922 | 645 | \$1,126 | 9.8% | | | |
| Brisbane - South | Major City | \$819,742 | 645 | \$1,271 | 9.1% | | | |
| Brisbane - West | Major City | \$949,780 | 829 | \$1,146 | 9.6% | | | |
| Brisbane Inner City | Major City | \$1,132,023 | 503 | \$2,250 | 8.5% | | | |
| Cairns | Outer Regional | \$419,875 | 1,746 | \$241 | 6.1% | | | |
| Central Queensland | Outer Regional | \$295,823 | 1,503 | \$197 | 7.7% | | | |
| Darling Downs - Maranoa | Outer Regional | \$300,000 | 5,188 | \$58 | 4.6% | | | |
| Gold Coast | Inner Regional | \$806,014 | 1,156 | \$697 | 10.5% | | | |
| Ipswich | Inner Regional | \$458,719 | 1,298 | \$353 | 9.0% | | | |
| Logan - Beaudesert | Inner Regional | \$553,599 | 1,573 | \$352 | 8.6% | | | |
| Mackay - Isaac – Whitsunday | Outer Regional | \$347,271 | 1,241 | \$280 | 7.2% | | | |
| Moreton Bay - North | Inner Regional | \$612,357 | 1,202 | \$509 | 10.3% | | | |
| Moreton Bay - South | Inner Regional | \$687,286 | 1,247 | \$551 | 9.8% | | | |
| Outback | Remote | \$188,375 | 1,588 | \$119 | 3.9% | | | |
| Sunshine Coast | Inner Regional | \$835,342 | 2,011 | \$415 | 12.5% | | | |
| Toowoomba | Outer Regional | \$432,357 | 1,708 | \$253 | 7.3% | | | |
| Townsville | Outer Regional | \$314,714 | 1,259 | \$250 | 4.8% | | | |
| Wide Bay | Outer Regional | \$394,924 | 2,430 | \$163 | 10.0% | | | |
| South Australia | | | | | | | | |
| Adelaide - Central and Hills | Major City | \$881,438 | 841 | \$1,049 | 8.1% | | | |
| Adelaide - North | Inner Regional | \$461,938 | 903 | \$512 | 8.6% | | | |
| Adelaide - South | Major City | \$635,910 | 796 | \$799 | 9.0% | | | |
| Adelaide - West | Major City | \$599,139 | 573 | \$1,046 | 8.5% | | | |
| Barossa - Yorke - Mid North | Inner Regional | \$294,080 | 2,353 | \$125 | 6.6% | | | |
| Outback | Remote | \$165,833 | 1,717 | \$97 | 2.2% | | | |
| South East | Inner Regional | \$337,729 | 2,483 | \$136 | 8.2% | | | |
| Source: EY analysis of CoreLogic Market Trends, December 2022 | | | | | | | | |





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Background

EY has been engaged by the NDIA to assist in undertaking technical research and analysis to support the SDA Pricing Review. This report examines land costs as a key input to assist the NDIA in developing new SDA benchmark prices.

Land costs form a key assumption within the SDA Pricing Model in determining funding required by a developer to acquire land to develop new build SDA properties.

Scope

This report presents the findings from research and analysis on land costs for SDA in response to the below report scope provided by the NDIA.

1. Develop statistical estimates of the cost per square meter of undeveloped and vacant land in each of the 88 SA4 regions, where the land is valued based on its highest and best permitted use.

Limitations

Based on the scope of work and the information available to us we have performed a like-for-like comparison. To enable this, certain assumptions have also been made. Obtaining Valuer General data was challenging as each State and Territory publishes different reports and varying levels of information. Several avenues were investigated including utilising the Government Reference Group, procuring data from CoreLogic and extracting publicly available information from each respective Valuer General however no suitable reliable data was able to be obtained. Without the Valuer General data analysis was limited to the CoreLogic data which includes both unimproved and improved market transactions.

This Report is limited in time and scope, other more detailed reviews or investigations may identify additional issues or considerations than this Report has noted. The results of this work are limited by the availability and quality of data. The results of this work and procedures performed do not constitute an audit, a review or other form of assurance in accordance with any generally accepted auditing, review or other assurance standards, and accordingly EY does not express any form of assurance.

Our findings are based, in part, on the assumptions stated and on information from both publicly available information and other sources used during the course of the engagement. The modelled outcomes (where appliable) are contingent on the assumptions as agreed with the NDIA and no consideration of other market events, announcements or other changing circumstances are reflected in this Report. Neither Ernst & Young nor any member or employee thereof undertakes responsibility in any way whatsoever to any person in respect of errors in this Report arising from incorrect information provided by the NDIA and other information sources used.

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When performing analysis to estimate land costs, consideration was given to both unimproved capital value and improved value as defined below:

- ▶ Unimproved capital value reflects the amount land only is worth subject to its highest and best use i.e. the price that a parcel of land would be expected to transact for without any above ground or structural improvements. The Valuer General of each State and Territory reports on unimproved capital value. Market transactions of vacant land can also be used to estimate unimproved capital value, however in established regions vacant land transactions can be limited.
- ▶ Improved value reflects that amount that both the land and structural improvements are worth subject to highest and best use i.e. the price that a dwelling on a parcel of land would be expected to transact for. Using market transactions and sales evidence is a methodology for estimating improved value.

Essentially, the scope of this report is to estimate the value of the unimproved capital value of land only. Due to the limitations outlined on Page 23, Valuer General data was unable to be obtained and therefore does not form part of our analysis. The CoreLogic market trends data used provides information on all residential sales at an SA2 level, which incorporates both improved and unimproved transactions.

In order to account for the differences between improved and unimproved value, the 25th percentile of the CoreLogic data has been assessed rather than the median as agreed to by the NDIA.

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EY undertook this work in collaboration with our consortium partner Kennedy Associates Architect (KAA) who bring a depth of experience in SDA design and planning through their work across feasibility studies for both Government and private sector clients. Additional information on KAA's experience and qualifications can be found in our Benchmark Construction Cost Technical Report.

The approach in undertaking the Land Cost research methodology is detailed below.

- 1. Historic Assumptions
- ► Identified historic assumptions utilised by NDIA within the historic SDA Pricing Model to inform land costs, land areas and applied growth rates.
- Provided an overview of the historic methodology and the application of the assumptions used by NDIA within the existing SDA Pricing Model.
- 2. Collecting and Processing Data
- ▶ Proposed land data would be collected at an SA3 level which is more granular, and reduces the impact of large SA4 regions where there is significant land cost variance over or understating the cost of land. SA3 data consists of 340 regions and are able to provide higher confidence in land costs.

- ► Source aggregated sales and growth data from CoreLogic to provide:
 - ► A view on brownfield value compared to greenfield, as relevant in areas where there is limited vacant land available.
 - ▶ A consistent approach across each State and Territory, as each Valuer General may utilise different valuation assumptions and release different data tables.
 - ▶ A sense check against Valuer General data provided.

Land value data was intended to be sourced from the Valuer General within each State and Territory at an SA3 region level. Valuer General provide unimproved land values only.

We note that when collecting Valuer General and SA3 level data time delays, inaccuracies and lack of quality data available limited our ability to deliver the intended methodology. As such, our findings have not included Valuer General information and remain at an SA4 level. Further information on the limitations is outlined on Page 24.

- 3. Analysis of Data and Key Findings
- ► Researched and defined average expected land areas required for efficient construction of SDA property building types.
- Produced a schedule of land costs (per square metre) based off information obtained from CoreLogic within each State and Territory.
- Conducted research and analysis to determine historic land value growth.





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Historic Methodology and Assumptions

The land cost input forms a key assumption within the SDA Pricing Model ("the Model") used by the NDIA as it is a measure of the cost to purchase land for SDA development.

The historic assumptions regarding land cost were assessed by the NDIA based on the median land value per SQM at a SA4 geographical level of granularity.

The median land value calculation was performed by the relevant State or Territory land authority or based on data supplied by the authority (either publicly available or by request). Due to differences in information quality and availability, alternative methods were applied in some jurisdictions, with the aim of achieving similar results as far as practicable.

The land areas were historically based on the below key assumptions by NDIA:

- ► That an apartment block of 40 units would be constructed on a block of approximately 2,000 SQM in size.
- ► That group accommodation for 5 residents would be constructed on a block of around 900 SQM (based on NSW Hunter Expression of Interest indication of 800-1,000 SQM).
- ► That other non-apartment accommodation (including villas, duplexes, townhouses and houses) would require a land area that was proportional to the number of residents and calculated on a pro-rata basis compared with a 5 resident group home. Resulting in 180 SQM being applied per resident.

Table 2 shows the adopted land area per Build Type.

The historic assumption escalates land costs by CPI each year.

Table 2: Historic Land Area Assumptions

| Dwelling type | Beds | Assumed Dwellings per Parcel of Land | Land per Dwelling | Total Land |
|--------------------------|------|---|----------------------|---------------|
| Apartment | 1 | 40 | 50 | 2,000 |
| Apartment | 2 | 40 | 50 | 2,000 |
| | 1 | 5 | 180 | 900 |
| Villa/ Townhouse/ Duplex | 2 | 2 | 360 | 720 |
| | 3 | 2 | 540 | 1,080 |
| House | 3 | 1 | 540 | 540 |
| | 4 | 1 | 720 | 720 |
| Group home | 5 | 1 | 900 | 900 |
| | 6 | 1 | 1080 | 1,080 |

Source: Historic SDA Pricing Model



Analysis

Land Area Assumptions

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The land area required for the development of each Build Type and Design Category is a key assumption for determining the total land cost that would reasonably be incurred to purchase land for the development of New Build SDA. There are many factors which impact the size of land required for a development including, but not limited to:

- 1. SDA Design Standard "Design Standard" (2019): The Design Standard includes requirements such as areas of egress for Robust, minimum pedestrian accessways and ramp where there are level differences.
- 2. Variation in planning controls and zoning: Planning controls such as site coverage, height limits and setbacks vary between each State, Territory and local council. This may have a material impact on the land area requirements for example:
 - The same house would have different land area requirements in a regional area which has a minimum lot size that is larger than a metropolitan area.
 - As stated in the Benchmark Construction Cost Technical Report, apartment costs have been estimated based on a development comprising of 40 apartments. A council height limit of three storeys compared to a height limit of six storeys would impact the land area requirements for the block of 40 apartments.
- 3. Individual site characteristics: Individual parcels of land will have different characteristics which will result in site specific area requirements. The shape, topography, frontage and presence of flood or bushfire areas all impact the land area.

The land area assumptions are for cost estimation purposes only and may not comply in all regions or apply for individual site requirements. The land area assumptions are based on the dwellings per parcel of land assumption as outlined within the Benchmark Construction Cost Technical Report. Table 3 provides a summary of this below.

Table 3: Assumed Dwellings per Parcel of Land by Build Type

| Build Type | SDA Residents | Assumption |
|-------------------|---------------|-----------------------------------|
| Apartment | 1, 2 and 3 | 40 apartments |
| | 4 | 3 dwellings for Robust, 5 for all |
| Villa/ Townhouse/ | Į. | other Design Categories |
| Duplex | 2 | O dividilia se |
| ' | 3 | 2 dwellings |
| House | 2 and 3 | 1 detected house |
| Group home | 4 and 5 | 1 detached house |

Source: Benchmark Construction Cost Technical Report, EY 2023

The NDIS Pricing Arrangements for SDA state that "Each house must have a land area that keeps with similar properties in the neighbourhood". We acknowledge that different regions and neighbourhoods have different minimum and typical lot sizes which may result in certain SDA Build Types being unsuitable for that region or requiring additional land area. For example, suburbs with small lot sizes may have limited options for land area which can accommodate a Group Home. Similarly, in a regional area with large minimum lot sizes a House may be developed on a larger land area.

Land Area Assumptions

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The land area assumptions have been developed to determine what a reasonable parcel of land is required for the efficient provision of SDA. The land area required for a project will be influenced by local planning controls and individual site characteristics and may also be impacted by the availability of land for purchase.

House and Group Home Area Assumption

House and Group Home land areas have been provided by KAA as part of the reference designs developed for the Benchmark Construction Cost Technical Report. KAA based the land area requirements on Victorian planning controls as they advised these are the most comparable with other States and Territories.

The GFA and configuration of each Design Category informed the land area assumption adopted. Table 4 outlines the boundary setback assumptions adopted by KAA in determining the land areas.

Table 4: Boundary Setback Assumptions

| Boundary Setback | Setback (SQM) Assumption |
|------------------|--------------------------|
| Front setback | 4.5 sqm to building |
| | 5.5 sqm to garage |
| Side setback | 6.0 sqm from rear wall |
| Rear setback | 1.5 sqm minimum |

Source: KAA reference designs, 2022

Across all House and Group Home configurations KAA's assumptions represented an average site coverage ratio of 41% enclosed floor area to land area. EY consider this reasonable as planning controls typically have a maximum site coverage of 50%.

Apartment and Villa/ Townhouse/ Duplex Area Assumption

While reference designs were provided for individual apartments and villas, no reference designs were developed by KAA for the overall site and communal areas.

EY have used Archistar software to assess planning controls across various local councils in each State and Territory to understand what a reasonable site coverage assumption would be for apartments and villas. Our research found that site coverage for villas, townhouses and duplex's typically ranged from 50% to 60%, whereas apartments typically ranged from 50% to 80%.

We have adopted a site coverage ratio of 50% for villas, townhouses and duplex's and 65% for apartments. For villas, townhouses and duplex's where there is minimal difference in GFA across Design Categories we have adopted the same land area.

Refer to *Annexure C – Apartment and Villa/ Townhouse/ Duplex Area Calculations* for the detailed site coverage calculations.

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Table 5 represents the new land area assumptions on a rate per square meter for each Build Type and Design Category.

Table 5: Land Area (SQM) per Dwelling

| Dwelling | Pada | Paoia | Improved | liveability | Fully ac | cessible | Rol | oust | High Physi | cal Support |
|---------------|----------------|-------|----------|------------------|----------|------------------|------------------|------------------|------------|------------------|
| type | Beds | Basic | No OOA | With OOA | No OOA | With OOA | No OOA | With OOA | No OOA | With OOA |
| | 1 | 29 | 30 | N/A ¹ | 31 | N/A ¹ | N/A ² | N/A ² | 31 | N/A ¹ |
| A martine and | 2 (1 Resident) | 37 | 40 | N/A ¹ | 42 | N/A ¹ | N/A ² | N/A ² | 42 | N/A ¹ |
| Apartment | 2 (2 Resident) | 37 | 41 | N/A ¹ | 43 | N/A ¹ | N/A ² | N/A ² | 43 | N/A ¹ |
| | 3 | 53 | 57 | N/A ¹ | 58 | N/A ¹ | N/A ² | N/A ² | 58 | N/A ¹ |
| Villa/ | 1 | 150 | 150 | 160 | 150 | 160 | 140 | 128 | 150 | 160 |
| Townhouse/ | 2 | 200 | 200 | 214 | 200 | 214 | 200 | 214 | 200 | 214 |
| Duplex | 3 | 300 | 300 | 321 | 300 | 321 | 300 | 321 | 300 | 321 |
| Ususa | 2 | 287 | 464 | 493 | 490 | 519 | 464 | 493 | 493 | 522 |
| House | 3 | 297 | 468 | 518 | 508 | 538 | 468 | 518 | 511 | 541 |
| Group | 4 | 359 | 534 | 579 | 584 | 613 | 534 | 579 | 587 | 615 |
| home | 5 | 366 | 585 | 614 | 619 | 663 | 585 | 614 | 619 | 663 |

Source: KAA reference designs, 2022, Archistar, EY analysis

- 1. A land area has not been developed for apartments with OOA, as OOA is provided through a separate apartment and the SDA Pricing Model calculates this.
- 2. No land area for Robust apartments has been developed, as there is no allowance for these within the SDA Pricing Arrangements.

Land Value

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The land value assumptions have been developed to determine what a reasonable average land value is, and estimate the efficient cost of land for providing SDA. The assumption aims to ensure that land can be purchased within the SA4 area, but does not mean that any parcel of land is suitable for SDA.

There are many factors which impact the value of land including, but not limited to:

- 1. Variation in planning controls and zoning: Planning controls such as zoning vary between each State, Territory and local council. This may have a material impact on the land value as zoning is a key driver of highest and best use, with higher density residential zonings typically achieving higher land values to reflect the potential yield of the parcel of land.
- 2. Individual site characteristics: Individual parcels of land have different characteristics which impact value. The size, shape, topography, frontage and presence of flood or bushfire areas all impact the land value.
- 3. Location: Where a parcel of land is situated, from both a suburb and individual lot perspective impacts the land value. Across an SA4 region land values can vary based on suburb prestige and proximity to services (public transport, hospitals, shops etc).
- 4. Availability of land: Limited availability of land suitable for development can not only impact land values, but increase the difficulty in sourcing vacant land with no improvements. In established brownfield locations developers may consider purchasing land with improvements suitable for redevelopment i.e. an older house nearing the end of its economic life.

Analysis was conducted on CoreLogic market trends data to estimate the land cost at an SA4 level. The CoreLogic data sourced incorporates all residential market transactions on both an improved and unimproved basis at an SA2 level. Therefore, rather than using the median EY adopted the 25th percentile data values to reflect the lower value of unimproved sites or lower value improved sites where the asset is reaching the end of its economic life which may be more suitable for redevelopment. Where required, outliers were removed at an SA2 level.

An overview of each step taken to calculate the estimate of value per square meter was calculated is provided below:

- 1. Divide the 25th percentile residential House sales price as at December 2022 by the average land size for each individual SA2 Australia-wide, resulting in a rate per square meter.
- 2. Remove any SA2's that are outliers, such as those where the average land area may be impacting the value on a rate per square meter. An example of this would be a regional location where the average land area is over 10,000 SQM and dilutes the value per square meter that would be achieved on a parcel of land within the regional town.
- 3. Calculate the average of each included SA2 rate per square meter to determine the average at an SA4 level

Refer to *Annexure D – CoreLogic Market Trends Data* for a detailed overview of the CoreLogic data analysed.

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Limitations

Land cost data was limited by the below three factors, therefore an alternative approach of escalating the historic land cost Analysis of land cost data was limited by the below three factors:

- 1. Difficulty in obtaining Valuer General data: obtaining Valuer General data was challenging as each State and Territory publishes different reports and varying levels of information. Valuer General data reports on the unimproved land value which would support land value assumptions. Several avenues were investigated including utilising the Government Reference Group, procuring data from CoreLogic and extracting publicly available information from each respective Valuer General however no suitable reliable data was able to be obtained. Without the Valuer General data analysis was limited to the CoreLogic data which includes both unimproved and improved market transactions.
- 2. Granularity of data: Land costs vary significantly across SA4 regions therefore assessing data and developing land cost estimates at an SA3 level may be more appropriate. While this was the intention through our initial methodology, the data analysed did not allow for this. Through the process of removing outliers in the CoreLogic market trends data, some SA3 areas had limited data points remaining to determine an average value with a high degree of confidence. The absence of Valuer General data did not allow for further analysis to support the CoreLogic data at an SA3 level.
- 3. Market volatility: The economic conditions and market trends over the past three years have contributed to increased market volatility in land prices. For example the CoreLogic 36 month change in median sales prices to December 2022 shows an average national increase of 15.3% annually, which is irregular growth when compared with the 20 year average annual growth of 7.0%. Within the national averages there is volatility at an SA4 level, with Sydney Northern Beaches sales prices decreasing 6.4% and QLD Wide Bay increasing 25.6% over the same 12 month period to December 2022. As such, analysis of the previous 12 months transaction data may not be reflective of current and short to medium term land costs.

Based on these limitations, an alternative approach of escalating the historic land cost assumptions based on real market growth could be considered by the NDIA. Growth assumptions have been outlined on Page 28.

Land Cost Input

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Table 6 provides a summary of the estimated residential value per square meter for each SA4 region per our analysis of CoreLogic 25th percentile residential sales (improved and unimproved) data. Using the 25th percentile rather than median represents the likely average cost of land to a developer within each SA4 region and reduces the limitation of CoreLogic data including improved sales. The data is as at December 2022.

Table 6: Estimated Residential Values per Square Meter

| SA4 | Classification | Value | Land Size (sqm) | \$/sqm |
|--|----------------|-------------|-----------------|---------|
| New South Wales | | | | |
| Capital Region | Outer Regional | \$717,375 | 2,066 | \$347 |
| Central Coast | Inner Regional | \$814,909 | 931 | \$875 |
| Central West | Outer Regional | \$547,500 | 2,820 | \$194 |
| Coffs Harbour - Grafton | Outer Regional | \$754,500 | 2,674 | \$282 |
| Far West and Orana | Remote | \$284,100 | 3,143 | \$90 |
| Hunter Valley exc Newcastle | Outer Regional | \$605,925 | 1,745 | \$347 |
| Illawarra | Outer Regional | \$799,188 | 663 | \$1,206 |
| Mid North Coast | Outer Regional | \$641,125 | 2,143 | \$299 |
| Murray | Outer Regional | \$368,225 | 2,222 | \$166 |
| New England and North West | Outer Regional | \$384,750 | 2,886 | \$133 |
| Newcastle and Lake Macquarie | Outer Regional | \$706,806 | 740 | \$955 |
| Richmond - Tweed | Outer Regional | \$939,852 | 1,796 | \$523 |
| Riverina | Outer Regional | \$386,766 | 2,614 | \$148 |
| Southern Highlands and Shoalhaven | Outer Regional | \$840,438 | 2,104 | \$399 |
| Sydney - Baulkham Hills and Hawkesbury | Inner Regional | \$1,686,006 | 1,397 | \$1,207 |
| Sydney - Blacktown | Major City | \$765,393 | 614 | \$1,246 |
| Sydney - City and Inner South | Major City | \$1,526,100 | 245 | \$6,228 |
| Sydney - Eastern Suburbs | Major City | \$2,460,250 | 405 | \$6,081 |
| Sydney - Inner South West | Major City | \$1,073,339 | 578 | \$1,858 |
| Sydney - Inner West | Major City | \$1,788,341 | 486 | \$3,683 |
| Sydney - North Sydney and Hornsby | Inner Regional | \$2,020,893 | 803 | \$2,517 |
| Sydney - Northern Beaches | Major City | \$2,207,500 | 785 | \$2,811 |

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| SA4 | Classification | Value | Land Size (sqm) | \$/sqm |
|--|----------------|-------------|-----------------|---------|
| Sydney - Outer South West | Inner Regional | \$784,417 | 1,108 | \$708 |
| Sydney - Outer West and Blue Mountains | Inner Regional | \$799,602 | 1,303 | \$614 |
| Sydney - Parramatta | Major City | \$1,052,800 | 609 | \$1,728 |
| Sydney - Ryde | Major City | \$1,726,250 | 798 | \$2,164 |
| Sydney - South West | Major City | \$832,438 | 742 | \$1,122 |
| Sydney - Sutherland | Major City | \$1,333,438 | 702 | \$1,899 |
| Victoria | | | | |
| Ballarat | Outer Regional | \$492,650 | 1,529 | \$322 |
| Bendigo | Outer Regional | \$577,875 | 1,690 | \$342 |
| Geelong | Inner Regional | \$551,667 | 725 | \$761 |
| Hume | Outer Regional | \$442,171 | 3,070 | \$144 |
| Latrobe - Gippsland | Inner Regional | \$463,341 | 2,310 | \$201 |
| Melbourne - Inner | Major City | \$1,305,083 | 412 | \$3,170 |
| Melbourne - Inner East | Major City | \$1,506,875 | 752 | \$2,003 |
| Melbourne - Inner South | Major City | \$1,133,000 | 595 | \$1,903 |
| Melbourne - North East | Major City | \$781,575 | 1,282 | \$609 |
| Melbourne - North West | Inner Regional | \$694,550 | 2,141 | \$324 |
| Melbourne - Outer East | Major City | \$829,292 | 1,570 | \$528 |
| Melbourne - South East | Inner Regional | \$719,795 | 952 | \$756 |
| Melbourne - West | Major City | \$591,107 | 582 | \$1,016 |
| Mornington Peninsula | Major City | \$976,920 | 1,557 | \$628 |
| North West | Outer Regional | \$294,850 | 2,799 | \$105 |
| Shepparton | Outer Regional | \$392,188 | 2,089 | \$188 |
| Warrnambool and South West | Outer Regional | \$458,750 | 1,916 | \$239 |
| Northern Territory | | | | |
| Darwin | Major City | \$478,810 | 826 | \$580 |
| Northern Territory - Outback | Remote | \$415,781 | 2,754 | \$151 |

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| SA4 | Classification | Value | Land Size (sqm) | \$/sqm |
|-----------------------------------|----------------|-------------|-----------------|---------|
| Western Australia | | | | |
| Bunbury | Outer Regional | \$348,269 | 1,170 | \$298 |
| Mandurah | Inner Regional | \$362,500 | 1,076 | \$337 |
| Perth - Inner | Major City | \$1,316,038 | 583 | \$2,255 |
| Perth - North East | Major City | \$451,426 | 854 | \$529 |
| Perth - North West | Major City | \$508,651 | 580 | \$877 |
| Perth - South East | Inner Regional | \$497,474 | 818 | \$608 |
| Perth - South West | Major City | \$528,146 | 702 | \$752 |
| Western Australia – Outback South | Remote | \$331,571 | 1,031 | \$322 |
| Western Australia – Outback North | Remote | \$227,855 | 2,281 | \$100 |
| Western Australia - Wheat Belt | Outer Regional | \$370,708 | 3,047 | \$122 |
| Australian Capital Territory | | | | |
| Australian Capital Territory | Major City | \$684,117 | 829 | \$826 |
| Tasmania | | | | |
| Hobart | Major City | \$691,260 | 1,618 | \$427 |
| Launceston and North East | Outer Regional | \$433,286 | 2,854 | \$152 |
| South East | Outer Regional | \$578,250 | 7,984 | \$72 |
| West and North West | Outer Regional | \$343,227 | 1,601 | \$214 |

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| SA4 | Classification | Value | Land Size (sqm) | \$/sqm |
|------------------------------|----------------|-------------|-----------------|---------|
| Queensland | | | | |
| Brisbane - East | Major City | \$711,123 | 922 | \$772 |
| Brisbane - North | Major City | \$725,922 | 645 | \$1,126 |
| Brisbane - South | Major City | \$819,742 | 645 | \$1,271 |
| Brisbane - West | Major City | \$949,780 | 829 | \$1,146 |
| Brisbane Inner City | Major City | \$1,132,023 | 503 | \$2,250 |
| Cairns | Outer Regional | \$419,875 | 1,746 | \$241 |
| Central Queensland | Outer Regional | \$295,823 | 1,503 | \$197 |
| Darling Downs - Maranoa | Outer Regional | \$300,000 | 5,188 | \$58 |
| Gold Coast | Inner Regional | \$806,014 | 1,156 | \$697 |
| Ipswich | Inner Regional | \$458,719 | 1,298 | \$353 |
| Logan - Beaudesert | Inner Regional | \$553,599 | 1,573 | \$352 |
| Mackay - Isaac – Whitsunday | Outer Regional | \$347,271 | 1,241 | \$280 |
| Moreton Bay - North | Inner Regional | \$612,357 | 1,202 | \$509 |
| Moreton Bay - South | Inner Regional | \$687,286 | 1,247 | \$551 |
| Outback | Remote | \$188,375 | 1,588 | \$119 |
| Sunshine Coast | Inner Regional | \$835,342 | 2,011 | \$415 |
| Toowoomba | Outer Regional | \$432,357 | 1,708 | \$253 |
| Townsville | Outer Regional | \$314,714 | 1,259 | \$250 |
| Wide Bay | Outer Regional | \$394,924 | 2,430 | \$163 |
| South Australia | | | | |
| Adelaide - Central and Hills | Major City | \$881,438 | 841 | \$1,049 |
| Adelaide - North | Inner Regional | \$461,938 | 903 | \$512 |
| Adelaide - South | Major City | \$635,910 | 796 | \$799 |
| Adelaide - West | Major City | \$599,139 | 573 | \$1,046 |
| Barossa - Yorke - Mid North | Inner Regional | \$294,080 | 2,353 | \$125 |
| Outback | Remote | \$165,833 | 1,717 | \$97 |
| South East | Inner Regional | \$337,729 | 2,483 | \$136 |

Five Year Growth Rates

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Due to the limitations with the approach to estimate land value outlined on Page 23, real growth in residential values has been considered. Given these limitations, an interim land cost may be derived by escalating the historic land cost assumptions by the real growth experienced by each SA4 since 2017. CoreLogic have provided average annual compound growth rate in median transaction values for 12 months, 5 years, 10 years and 20 years at an SA2 level. We have assessed the 5 year measure as the most suitable to reflect the market volatility of recent years. Table 7 provides the average annual growth rate of residential sale prices over the last 5 years at an SA4 level.

Table 7: Residential Market Value Growth

| SA4 | 5 Year Average Annual Growth Rate |
|-----------------------------------|--|
| New South Wales | NSW average 7.5% |
| Capital Region | 12.2% |
| Central Coast | 8.6% |
| Central West | 10.8% |
| Coffs Harbour - Grafton | 10.8% |
| Far West and Orana | 8.1% |
| Hunter Valley exc Newcastle | 9.7% |
| Illawarra | 8.0% |
| Mid North Coast | 10.7% |
| Murray | 9.9% |
| New England and North West | 7.6% |
| Newcastle and Lake Macquarie | 8.8% |
| Richmond - Tweed | 12.0% |
| Riverina | 10.0% |
| Southern Highlands and Shoalhaver | າ 10.1% |
| Sydney - Baulkham Hills and Hawke | esbury 5.8% |
| Sydney - Blacktown | 4.9% |
| Sydney - City and Inner South | 2.9% |
| Sydney - Eastern Suburbs | 6.3% |
| Sydney - Inner South West | 4.0% |
| Sydney - Inner West | 4.8% |
| Sydney - North Sydney and Hornsby | 4.8% |
| Sydney - Northern Beaches | 6.8% |
| Sydney - Outer South West | 5.6% |

| SA4 | 5 Year Average Annual Growth Rate |
|------------------------------------|-----------------------------------|
| Sydney - Outer West and Blue Mou | untains 6.0% |
| Sydney - Parramatta | 3.6% |
| Sydney - Ryde | 5.4% |
| Sydney - South West | 5.4% |
| Sydney - Sutherland | 4.9% |
| Victoria | VIC average 8.3% |
| Ballarat | 13.0% |
| Bendigo | 11.6% |
| Geelong | 11.4% |
| Hume | 13.0% |
| Latrobe - Gippsland | 12.7% |
| Melbourne - Inner | 2.8% |
| Melbourne - Inner East | 2.2% |
| Melbourne - Inner South | 3.9% |
| Melbourne - North East | 4.5% |
| Melbourne - North West | 5.2% |
| Melbourne - Outer East | 4.3% |
| Melbourne - South East | 4.9% |
| Melbourne - West | 4.4% |
| Mornington Peninsula | 8.2% |
| North West | 11.8% |
| Shepparton | 12.7% |
| Warrnambool and South West | 14.0% |
| Source: EY analysis of CoreLogic N | Market Trends, December 2022 |

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| SA4 | 5 Year Average Annual Growth Rate |
|------------------------------|-----------------------------------|
| Queensland | QLD average 8.3% |
| Brisbane - East | 9.2% |
| Brisbane - North | 9.8% |
| Brisbane - South | 9.1% |
| Brisbane - West | 9.6% |
| Brisbane Inner City | 8.5% |
| Cairns | 6.1% |
| Central Queensland | 7.7% |
| Darling Downs - Maranoa | 4.6% |
| Gold Coast | 10.5% |
| Ipswich | 9.0% |
| Logan - Beaudesert | 8.6% |
| Mackay - Isaac – Whitsunday | 7.2% |
| Moreton Bay - North | 10.3% |
| Moreton Bay - South | 9.8% |
| Outback | 3.9% |
| Sunshine Coast | 12.5% |
| Toowoomba | 7.3% |
| Townsville | 4.8% |
| Wide Bay | 10.0% |
| South Australia | SA average 7.3% |
| Adelaide - Central and Hills | 8.1% |
| Adelaide - North | 8.6% |
| Adelaide - South | 9.0% |
| Adelaide - West | 8.5% |
| Barossa - Yorke - Mid North | 6.6% |
| Outback | 2.2% |
| South East | 8.2% |

| SA4 | 5 Year Average Annual Growth Rate |
|-----------------------------------|-----------------------------------|
| Western Australia | WA average 5.6% |
| Bunbury | 5.2% |
| Mandurah | 4.7% |
| Perth - Inner | 6.3% |
| Perth - North East | 4.0% |
| Perth - North West | 4.5% |
| Perth - South East | 4.0% |
| Perth - South West | 4.8% |
| Western Australia - Outback South | 12.2% |
| Western Australia – Outback North | 5.8% |
| Western Australia - Wheat Belt | 4.6% |
| Australian Capital Territory | |
| Australian Capital Territory | 9.3% |
| Tasmania | TAS average 14.2% |
| Hobart | 13.3% |
| Launceston and North East | 14.7% |
| South East | 15.8% |
| West and North West | 13.3% |
| Northern Territory | NT average 3.6% |
| Darwin | 3.4% |
| Northern Territory - Outback | 3.8% |

Other Cost Considerations

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When an entity purchases land there are other costs incurred over and above the market value of the land within the transaction. Stamp duty, conveyancing and fees are also incurred by the purchaser at the time of transfer. The historic assumptions used by NDIA incorporated these as "Buying Costs" within the exit fee assumptions however as they are incurred at the time of purchasing land, the NDIA may consider reflecting them as a land cost within the model.

Stamp Duty

Stamp Duty is a tax applied by state and territory governments on the purchase of real estate. The historic model used by NDIA adopts a fixed **4.0%** allowance for stamp duty irrespective of region. EY have provided stamp duty ranges for various states and territories based on asset values between \$250,000 to \$2,000,000 within **Annexure B – Total Buying Costs**. The indicative stamp duty rates are based on purchases for investment purposes and reflect a range between 1.4% to 5.5% with an average of 4.3%.

Conveyancing and Other Buying Costs

Conveyancing reflects the process of transferring legal ownership of an asset from a vendor to a purchaser and incorporates other buying costs including mortgage registration and transfer fees. The historic assumption within the Model used by NDIA incorporates these costs based on **0.3%** of the sale price.

Based on our research, conveyancing fees typically range between \$800 - \$2,200 on a national basis, with higher value transactions incurring fees towards the higher end of the range. For the purposes of determining an appropriate percentage range we have adopted a range of \$1,000 to \$2,000.

Mortgage registration fees range from \$124 to \$209 on a national basis and are a fixed fee (i.e. are not influenced by the value of the transaction). Victoria has the lowest fees with Queensland reflecting the highest.

Government transfer fees are impacted significantly depending on the state or territory and the value of the transaction. Notably, New South Wales reflects the lowest government transfer fee of \$154 with South Australia reflecting the highest of \$18,151.

Table 8: Historic Model Assumptions vs Market Benchmarks

| | Model | | Benchmark | | | | |
|--|----------|------|-----------|------|--|--|--|
| | Historic | Min | Ave. | Max | | | |
| Stamp Duty | 4.0% | 1.4% | 4.3% | 5.5% | | | |
| Plus Conveyancing and other buying costs | 0.3% | 0.1% | 0.4% | 1.3% | | | |
| Equals Total Buying Costs* | 4.3% | 2.0% | 4.7% | 6.2% | | | |

^{*}Reflects the minimum/maximum ranges based on the overall total buying cost rather than the sum of the minimum/maximum of each component.

Source: Stamp Duty Calculator Australia/NAB/EY Analysis

Total Buying Costs

Each state and territory apply their own rates of stamp duty and other buying costs largely associated with the transaction value of an asset, therefore a matrix approach rather than a single assumption could be considered by the NDIA. Based on our research, total buying costs average 4.7% of the transaction value on a national basis.

Refer to *Annexure B – Total Buying Costs* for a breakdown of the abovementioned rates.



Appendices

Annexure A: Glossary

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| Term | Meaning |
|-----------------------------|--|
| AVM | CoreLogic's Automated Valuation Model. |
| Building Type | The Design Category as per the SDA Framework - Apartment, Duplex/Villa/Townhouse, House or Group Home. |
| Apartment | Self-contained units that are part of a larger residential building. |
| Duplex, Villa, Townhouse | Separate but semi-attached properties within a single land title or strata titled area. This also includes stand-alone villas or granny-flats. |
| House | Detached low-rise buildings with garden or courtyard areas with fewer than 4 bedrooms. |
| Group Home | Houses that have 4 or 5 bedrooms. |
| Design Category | The Design Category as per the SDA Framework - Basic, Improved Liveability, Fully Accessible, Robust or High Physical Support. |
| Basic | Housing without specialised design features but with other important SDA characteristics (e.g. location, privacy, shared supports). |
| Improved Liveability (IL) | Housing that has been designed to improve 'Liveability' by incorporating a reasonable level of physical access and enhanced provision for people with sensory, intellectual or cognitive impairment. |
| Fully Accessible (FA) | Housing that has been designed to incorporate a high level of physical access provision for people with significant physical impairment. |
| Robust | Housing that has been designed to incorporate a high level of physical access provision and be very resilient, reducing the likelihood of reactive maintenance and reducing the risk to the participant and the community. |
| High Physical Support (HPS) | Housing that has been designed to incorporate a high level of physical access provision for people with significant physical impairment and requiring very high levels of support. |
| Enrolled Dwelling | A dwelling enrolled under section 26 of the NDIS (Specialist Disability Accommodation) Rules 2020 to provide SDA. |
| GBA | Gross building area |
| GFA | Gross floor area |
| Improved value | Improved value reflects that amount that both the land and structural improvements are worth subject to highest and best use i.e. the price that a dwelling on a parcel of land would be expected to transact for. |
| NDIA | National Disability Insurance Agency. |
| NDIS | National Disability Insurance Scheme. |

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| Term | Meaning |
|----------------------------|--|
| SA4 | Statistical Areas Level 4 (SA4) are geographical areas. The SA4 regions are the largest sub-State regions in the Main Structure of the Australian Statistical Geography Standard (ASGS). A minimum of 100,000 persons was set for the SA4s, although there are some exceptions to this. In regional areas, SA4s tend to have populations closer to the minimum (100,000 - 300,000). In metropolitan areas, the SA4s tend to have larger populations (300,000 - 500,000). |
| SA3 | Statistical Areas Level 3 (SA3) are geographical areas. SA3s are often the functional areas of regional towns and cities or clusters of related suburbs around urban commercial and transport hubs within the major urban areas. In general, SA3s are designed to have populations between 30,000 and 130,000 people. However, the creation of meaningful regional areas takes priority over population criteria. |
| SA2 | Statistical Areas Level 2 (SA2) are geographical areas. SA2s generally have a population between 3,000 and 25,000 with an average of about 10,000 people. Their purpose is to represent a community that interacts together socially and economically. |
| SDA | Specialist Disability Accommodation. |
| SDA Type | The SDA type under the SDA Framework - Existing, Legacy, New Build or New Build (refurbished). |
| New Build | An SDA dwelling that was built (has a certificate of occupancy dated) after 1 April 2016 and meets all of the requirements under the SDA Rules and NDIS Price Guide. |
| Existing | Dwellings built before 1 April 2016 that were used as disability related supported accommodation under a previous State, Territory or Commonwealth scheme. Existing dwellings must substantially comply with the requirements of a new build, and must meet the maximum resident requirement (5 residents or less). |
| Legacy | Existing dwellings that do not meet the maximum resident requirement of 5 residents or less. Over time, the NDIA will stop making SDA payments towards Legacy dwellings. |
| New Build (refurbished) | A dwelling that was built before 1 April 2016 but has been significantly refurbished since and now meets all of the requirements for a new build in the SDA Rules and NDIS Price Guide. In order to qualify for as a New Build (refurbished) providers must spend a minimum amount. These minimum amounts are specified per dwelling type in the SDA Price Guide. |
| Unimproved capital value | Unimproved capital value reflects the amount land only is worth subject to its highest and best use i.e. the price that a parcel of land would be expected to transact for without any above ground or structural improvements. The Valuer General of each State and Territory reports on unimproved capital value. Market transactions of vacant land can also be used to estimate unimproved capital value, however in established regions vacant land transactions can be limited |
| Historic Model | 2016 SDA Pricing Model developed by NDIA. |

Annexure B - Total Buying Costs

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A worked example of the total estimated asset purchase costs on a State by State Basis is outlined in Table 9 below.

Table 9: Total Estimated Buying Costs

| Fee Category | Asset Value | WA | NSW | VIC | QLD | SA | TAS | NT | ACT |
|---------------|-------------|----------|----------|----------|----------|----------|----------|----------|--------|
| Stamp Duty | \$250,000 | \$6,935 | \$7,110 | \$10,070 | \$7,175 | \$8,955 | \$7,935 | \$7,857 | \$3,50 |
| Mortgage Fees | | \$188 | \$154 | \$124 | \$209 | \$179 | \$145 | \$156 | \$160 |
| Transfer Fees | | \$238 | \$154 | \$687 | \$484 | \$2,139 | \$223 | \$156 | \$429 |
| Conveyancing | | \$1,000 | \$1,000 | \$1,000 | \$1,000 | \$1,000 | \$1,000 | \$1,000 | \$1,00 |
| Stamp Duty | \$500,000 | \$17,765 | \$17,590 | \$25,070 | \$15,925 | \$21,330 | \$18,248 | \$23,929 | \$11,4 |
| Mortgage Fees | | \$188 | \$154 | \$124 | \$209 | \$179 | \$145 | \$156 | \$160 |
| Transfer Fees | | \$278 | \$154 | \$1,272 | \$1,464 | \$4,427 | \$223 | \$156 | \$42 |
| Conveyancing | | \$1,000 | \$1,000 | \$1,000 | \$1,000 | \$1,000 | \$1,000 | \$1,000 | \$1,00 |
| Stamp Duty | \$750,000 | \$29,741 | \$28,840 | \$40,070 | \$26,775 | \$35,080 | \$28,935 | \$37,125 | \$22,2 |
| Mortgage Fees | | \$188 | \$154 | \$124 | \$209 | \$179 | \$145 | \$156 | \$16 |
| Transfer Fees | | \$338 | \$154 | \$1,857 | \$2,444 | \$6,714 | \$223 | \$156 | \$42 |
| Conveyancing | | \$1,500 | \$1,500 | \$1,500 | \$1,500 | \$1,500 | \$1,500 | \$1,500 | \$1,50 |
| Stamp Duty | \$1,000,000 | \$42,616 | \$40,090 | \$55,000 | \$38,025 | \$48,830 | \$40,185 | \$49,500 | \$36,9 |
| Mortgage Fees | | \$188 | \$154 | \$124 | \$209 | \$179 | \$145 | \$256 | \$16 |
| Transfer Fees | | \$378 | \$154 | \$2,442 | \$3,425 | \$9,002 | \$223 | \$156 | \$42 |
| Conveyancing | | \$1,500 | \$1,500 | \$1,500 | \$1,500 | \$1,500 | \$1,500 | \$1,500 | \$1,50 |

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| Fee Category | Asset Value | WA | NSW | VIC | QLD | SA | TAS | NT | ACT |
|---------------|-------------|----------|----------|-----------|----------|-----------|----------|----------|----------|
| Stamp Duty | \$1,250,000 | \$55,491 | \$52,950 | \$68,750 | \$52,400 | \$62,580 | \$51,425 | \$61,875 | \$52,950 |
| Mortgage Fees | | \$188 | \$154 | \$124 | \$209 | \$179 | \$145 | \$156 | \$160 |
| Transfer Fees | | \$438 | \$154 | \$3,027 | \$4,405 | \$11,289 | \$223 | \$156 | \$429 |
| Conveyancing | | \$2,000 | \$2,000 | \$2,000 | \$2,000 | \$2,000 | \$2,000 | \$2,000 | \$2,000 |
| Stamp Duty | \$1,500,000 | \$68,366 | \$66,700 | \$82,500 | \$66,775 | \$76,330 | \$62,685 | \$74,250 | \$68,10 |
| Mortgage Fees | | \$188 | \$154 | \$124 | \$209 | \$179 | \$145 | \$156 | \$160 |
| Transfer Fees | | \$478 | \$154 | \$3,612 | \$5,386 | \$13,576 | \$223 | \$156 | \$429 |
| Conveyancing | | \$2,000 | \$2,000 | \$2,000 | \$2,000 | \$2,000 | \$2,000 | \$2,000 | \$2,00 |
| Stamp Duty | \$1,750,000 | \$81,241 | \$80,450 | \$96,250 | \$81,150 | \$90,080 | \$73,935 | \$86,625 | \$79,45 |
| Mortgage Fees | | \$188 | \$154 | \$124 | \$209 | \$179 | \$145 | \$156 | \$160 |
| Transfer Fees | | \$538 | \$154 | \$3,612 | \$6,366 | \$15,864 | \$223 | \$156 | \$429 |
| Conveyancing | | \$2,000 | \$2,000 | \$2,000 | \$2,000 | \$2,000 | \$2,000 | \$2,000 | \$2,00 |
| Stamp Duty | \$2,000,000 | \$94,116 | \$94,200 | \$110,000 | \$95,525 | \$103,830 | \$85,185 | \$99,000 | \$90,80 |
| Mortgage Fees | | \$188 | \$154 | \$124 | \$209 | \$179 | \$145 | \$156 | \$160 |
| Transfer Fees | | \$578 | \$154 | \$3,612 | \$7,347 | \$18,151 | \$223 | \$156 | \$429 |
| Conveyancing | | \$2,000 | \$2,000 | \$2,000 | \$2,000 | \$2,000 | \$2,000 | \$2,000 | \$2,000 |

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The percentage of Total Estimated Buying Costs attributed to the overall asset value on a State by State and average basis are outlined in Table 10 below.

Table 10: Total Estimated Buying Costs by Region and Price Point

| Asset Value | Average | WA | NSW | VIC | QLD | SA | TAS | NT | ACT |
|-------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| \$250,000 | 3.67% | 3.34% | 3.37% | 4.75% | 3.55% | 4.91% | 3.72% | 3.67% | 2.04% |
| \$500,000 | 4.22% | 3.85% | 3.78% | 5.49% | 3.72% | 5.39% | 3.92% | 5.05% | 2.60% |
| \$750,000 | 4.57% | 4.24% | 4.09% | 5.81% | 4.12% | 5.80% | 4.11% | 5.19% | 3.24% |
| \$1,000,000 | 4.76% | 4.47% | 4.19% | 5.91% | 4.32% | 5.95% | 4.21% | 5.14% | 3.90% |
| \$1,250,000 | 4.96% | 4.65% | 4.42% | 5.91% | 4.72% | 6.08% | 4.30% | 5.13% | 4.44% |
| \$1,500,000 | 5.06% | 4.74% | 4.60% | 5.88% | 4.96% | 6.14% | 4.34% | 5.10% | 4.71% |
| \$1,750,000 | 5.10% | 4.80% | 4.73% | 5.83% | 5.13% | 6.18% | 4.36% | 5.08% | 4.69% |
| \$2,000,000 | 5.13% | 4.84% | 4.83% | 5.79% | 5.25% | 6.21% | 4.38% | 5.07% | 4.67% |

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The percentage of Estimated Stamp Duty Costs attributed to the overall asset value on a State by State and average basis are outlined in Table 11 below.

Table 11: Estimated Stamp Duty by Region and Price Point

| Asset Value | Average | WA | NSW | VIC | QLD | SA | TAS | NT | ACT |
|-------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| \$250,000 | 2.98% | 2.77% | 2.84% | 4.03% | 2.87% | 3.58% | 3.17% | 3.14% | 1.40% |
| \$500,000 | 3.78% | 3.55% | 3.52% | 5.01% | 3.19% | 4.27% | 3.65% | 4.79% | 2.28% |
| \$750,000 | 4.15% | 3.97% | 3.85% | 5.34% | 3.57% | 4.68% | 3.86% | 4.95% | 2.96% |
| \$1,000,000 | 4.39% | 4.26% | 4.01% | 5.50% | 3.80% | 4.88% | 4.02% | 4.95% | 3.70% |
| \$1,250,000 | 4.58% | 4.44% | 4.24% | 5.50% | 4.19% | 5.01% | 4.11% | 4.95% | 4.24% |
| \$1,500,000 | 4.71% | 4.56% | 4.45% | 5.50% | 4.45% | 5.09% | 4.18% | 4.95% | 4.54% |
| \$1,750,000 | 4.78% | 4.64% | 4.60% | 5.50% | 4.64% | 5.15% | 4.22% | 4.95% | 4.54% |
| \$2,000,000 | 4.83% | 4.71% | 4.71% | 5.50% | 4.78% | 5.19% | 4.26% | 4.95% | 4.54% |

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The percentage of Other Estimated Buying Costs (fees and conveyancing) attributed to the overall asset value on a State by State and average basis are outlined in Table 12 below.

Table 12: Other Estimated Buying Costs by Region and Price Point

| Asset Value | Average | WA | NSW | VIC | QLD | SA | TAS | NT | ACT |
|-------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| \$250,000 | 0.69% | 0.57% | 0.52% | 0.72% | 0.68% | 1.33% | 0.55% | 0.52% | 0.64% |
| \$500,000 | 0.44% | 0.29% | 0.26% | 0.48% | 0.53% | 1.12% | 0.27% | 0.26% | 0.32% |
| \$750,000 | 0.43% | 0.27% | 0.24% | 0.46% | 0.55% | 1.12% | 0.25% | 0.24% | 0.28% |
| \$1,000,000 | 0.37% | 0.21% | 0.18% | 0.41% | 0.51% | 1.07% | 0.19% | 0.19% | 0.21% |
| \$1,250,000 | 0.37% | 0.21% | 0.18% | 0.41% | 0.53% | 1.08% | 0.19% | 0.18% | 0.21% |
| \$1,500,000 | 0.34% | 0.18% | 0.15% | 0.38% | 0.51% | 1.05% | 0.16% | 0.15% | 0.17% |
| \$1,750,000 | 0.32% | 0.16% | 0.13% | 0.33% | 0.49% | 1.03% | 0.14% | 0.13% | 0.15% |
| \$2,000,000 | 0.30% | 0.14% | 0.12% | 0.29% | 0.48% | 1.02% | 0.12% | 0.12% | 0.13% |

Annexure C – Apartment and Villa/ Townhouse/ Duplex Land Area Calculations

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Table 12 provides a summary of the site coverage calculations used to determine the land area assumptions for the apartment Build Type. **Table 12: Apartment Land Area Calculations**

| Design Category/ Bed | Land Size (SQM) | Building Height | Site Coverage | Max GFA (SQM) | Floor Efficiency | Net Saleable Area (SQM) | Unit GBA (SQM) | Total Units | Land Area per Unit (SQM) | Recommended Land Area Input (SQM) |
|----------------------------|-----------------------|--------------------|---------------|------------------|---------------------|----------------------------|----------------------|-------------|-----------------------------|---|
| Basic 1 Bed | 1,400 | 4 storeys | 50% | 2,800 | 85% | 2,380 | 60 | 40 | 35 | 29 |
| Basic 1 Bed | 880 | 4 storeys | 80% | 2,816 | 85% | 2,394 | 60 | 40 | 22 | 29 |
| IL 1 Bed | 1,500 | 4 storeys | 50% | 3,000 | 85% | 2,550 | 63 | 40 | 38 | 30 |
| IL 1 Bed | 920 | 4 storeys | 80% | 2,944 | 85% | 2,502 | 63 | 40 | 23 | 30 |
| FA 1 Bed | 1,540 | 4 storeys | 50% | 3,080 | 85% | 2,618 | 65 | 40 | 39 | 31 |
| FA 1 Bed | 950 | 4 storeys | 80% | 3,040 | 85% | 2,584 | 65 | 40 | 24 | 31 |
| HPS 1 Bed | 1,540 | 4 storeys | 50% | 3,080 | 85% | 2,618 | 65 | 40 | 39 | 31 |
| HPS 1 Bed | 950 | 4 storeys | 80% | 3,040 | 85% | 2,584 | 65 | 40 | 24 | 31 |
| IL 2 Bed (1 Resident) | 1,950 | 4 storeys | 50% | 3,900 | 85% | 3,315 | 83 | 40 | 49 | 40 |
| IL 2 Bed (1 Resident) | 1,225 | 4 storeys | 80% | 3,920 | 85% | 3,332 | 83 | 40 | 31 | 40 |
| FA 2 Bed (1 Resident) | 2,050 | 4 storeys | 50% | 4,100 | 85% | 3,485 | 87 | 40 | 51 | 42 |
| FA 2 Bed (1 Resident) | 1,275 | 4 storeys | 80% | 4,080 | 85% | 3,468 | 87 | 40 | 32 | 42 |
| HPS 2 Bed (1 Resident) | 2,050 | 4 storeys | 50% | 4,100 | 85% | 3,485 | 87 | 40 | 51 | 42 |
| HPS 2 Bed (1 Resident) | 1,275 | 4 storeys | 80% | 4,080 | 85% | 3,468 | 87 | 40 | 32 | 42 |

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| Design Category/ Bed | Land Size (SQM) | Building Height | Site Coverage | Max GFA (SQM) | Floor Efficiency | Net Saleable Area (SQM) | Unit GBA (SQM) | Total Units | Land Area per Unit (SQM) | Recommended Land Area Input (SQM) |
|----------------------------|-----------------------|--------------------|---------------|------------------|---------------------|----------------------------|----------------------|-------------|-----------------------------|---|
| Basic 2 Bed | 1,850 | 4 storeys | 50% | 3,700 | 85% | 3,145 | 79 | 40 | 46 | 37 |
| Basic 2 Bed | 1,150 | 4 storeys | 80% | 3,680 | 85% | 3,128 | 79 | 40 | 29 | 37 |
| IL 2 Bed | 2,000 | 4 storeys | 50% | 4,000 | 85% | 3,400 | 85 | 40 | 50 | 44 |
| IL 2 Bed | 1,250 | 4 storeys | 80% | 4,000 | 85% | 3,400 | 85 | 40 | 31 | 41 |
| FA 2 Bed | 2,100 | 4 storeys | 50% | 4,200 | 85% | 3,570 | 90 | 40 | 53 | 42 |
| FA 2 Bed | 1,320 | 4 storeys | 80% | 4,224 | 85% | 3,590 | 90 | 40 | 33 | 43 |
| HPS 2 Bed | 2,100 | 4 storeys | 50% | 4,200 | 85% | 3,570 | 90 | 40 | 53 | 40 |
| HPS 2 Bed | 1,320 | 4 storeys | 80% | 4,224 | 85% | 3,590 | 90 | 40 | 33 | 43 |
| Basic 3 Bed | 2,600 | 4 storeys | 50% | 5,200 | 85% | 4,420 | 111 | 40 | 65 | 50 |
| Basic 3 Bed | 1,640 | 4 storeys | 80% | 5,248 | 85% | 4,461 | 111 | 40 | 41 | 53 |
| IL 3 Bed | 2,780 | 4 storeys | 50% | 5,560 | 85% | 4,726 | 119 | 40 | 70 | F-7 |
| IL 3 Bed | 1,750 | 4 storeys | 80% | 5,600 | 85% | 4,760 | 119 | 40 | 44 | 57 |
| FA 3 Bed | 2,820 | 4 storeys | 50% | 5,640 | 85% | 4,794 | 121 | 40 | 71 | 57 |
| FA 3 Bed | 1,800 | 4 storeys | 80% | 5,760 | 85% | 4,896 | 121 | 40 | 45 | 57 |
| HPS 3 Bed | 2,820 | 4 storeys | 50% | 5,640 | 85% | 4,794 | 121 | 40 | 71 | 50 |
| HPS 3 Bed | 1,800 | 4 storeys | 80% | 5,760 | 85% | 4,896 | 121 | 40 | 45 | 58 |

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Table 13 provides a summary of the site coverage calculations used to determine the land area assumptions for the villa/ townhouse/ duplex Build Type.

Table 13: Villa/ Townhouse/ Duplex Land Area Calculations

| Design Category/ Bed | Land Size (SQM) | Building Height | Site Coverage | Max GFA (SQM) | Floor Efficiency | Net Saleable Area (SQM) | Unit GBA (SQM) | Total Units | Land Area per Unit (SQM) | Recommended Land Area Input (SQM) |
|----------------------------|-----------------------|--------------------|---------------|------------------|---------------------|----------------------------|----------------------|-------------|-----------------------------|---|
| Basic 1 Bed | 750 | 1 storey | 50% | 375 | 95% | 356 | 64 | 5 | 150 | 150 |
| Basic 1 Bed | 600 | 1 storey | 60% | 360 | 95% | 342 | 64 | 5 | 120 | 150 |
| IL 1 Bed | 750 | 1 storey | 50% | 375 | 95% | 356 | 64 | 5 | 150 | 150 |
| IL 1 Bed | 600 | 1 storey | 60% | 360 | 95% | 342 | 64 | 5 | 120 | 150 |
| FA 1 Bed | 750 | 1 storey | 50% | 375 | 95% | 356 | 68 | 5 | 150 | 150 |
| FA 1 Bed | 630 | 1 storey | 60% | 378 | 95% | 359 | 68 | 5 | 126 | 150 |
| Robust 1 Bed | 420 | 1 storey | 50% | 210 | 95% | 200 | 64 | 3 | 140 | 140 |
| Robust 1 Bed | 350 | 1 storey | 60% | 210 | 95% | 200 | 64 | 3 | 117 | 140 |
| HPS 1 Bed | 750 | 1 storey | 50% | 375 | 95% | 356 | 68 | 5 | 150 | 150 |
| HPS 1 Bed | 600 | 1 storey | 60% | 360 | 95% | 342 | 68 | 5 | 120 | 150 |
| Basic 2 Bed | 400 | 1 storey | 50% | 200 | 95% | 190 | 85 | 2 | 200 | 200 |
| Basic 2 Bed | 300 | 1 storey | 60% | 180 | 95% | 171 | 85 | 2 | 150 | 200 |
| IL 2 Bed | 400 | 1 storey | 50% | 200 | 95% | 190 | 85 | 2 | 200 | 200 |
| IL 2 Bed | 300 | 1 storey | 60% | 180 | 95% | 171 | 85 | 2 | 150 | 200 |
| FA 2 Bed | 400 | 1 storey | 50% | 200 | 95% | 190 | 89 | 2 | 200 | 200 |
| FA 2 Bed | 320 | 1 storey | 60% | 192 | 95% | 182 | 89 | 2 | 160 | 200 |
| Robust 2 Bed | 400 | 1 storey | 50% | 200 | 95% | 190 | 85 | 2 | 200 | 200 |
| Robust 2 Bed | 300 | 1 storey | 60% | 180 | 95% | 171 | 85 | 2 | 150 | 200 |
| HPS 2 Bed | 400 | 1 storey | 50% | 200 | 95% | 190 | 89 | 2 | 200 | 200 |
| HPS 2 Bed | 320 | 1 storey | 60% | 192 | 95% | 182 | 89 | 2 | 160 | 200 |

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| Design Category/ Bed | Land Size (SQM) | Building Height | Site Coverage | Max GFA (SQM) | Floor Efficiency | Net Saleable Area (SQM) | Unit GBA (SQM) | Total Units | Land Area per Unit (SQM) | Recommended Land Area Input (SQM) |
|----------------------------|-----------------------|--------------------|---------------|------------------|---------------------|----------------------------|----------------------|-------------|-----------------------------|---|
| Basic 3 Bed | 600 | 1 storey | 50% | 300 | 95% | 285 | 109 | 3 | 300 | 200 |
| Basic 3 Bed | 400 | 1 storey | 60% | 240 | 95% | 228 | 109 | 2 | 200 | 300 |
| IL 3 Bed | 600 | 1 storey | 50% | 300 | 95% | 285 | 115 | 2 | 300 | 200 |
| IL 3 Bed | 400 | 1 storey | 60% | 240 | 95% | 228 | 115 | 2 | 200 | 300 |
| FA 3 Bed | 600 | 1 storey | 50% | 300 | 95% | 285 | 125 | 2 | 300 | 200 |
| FA 3 Bed | 450 | 1 storey | 60% | 270 | 95% | 257 | 125 | 2 | 225 | 300 |
| Robust 3 Bed | 600 | 1 storey | 50% | 300 | 95% | 285 | 115 | 2 | 300 | 200 |
| Robust 3 Bed | 400 | 1 storey | 60% | 240 | 95% | 228 | 115 | 2 | 200 | 300 |
| HPS 3 Bed | 600 | 1 storey | 50% | 300 | 95% | 285 | 125 | 2 | 300 | 200 |
| HPS 3 Bed | 450 | 4 storeys | 60% | 270 | 95% | 257 | 125 | 2 | 225 | 300 |

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The NDIA commissioned a Market Trends Back Series Report (December 2022) from CoreLogic for EY's use in determining the land cost assumptions. The Market Trends Back Series report provided residential sale data aggregated for each SA2 located within Australia calculated at monthly intervals from the CoreLogic database. This data incorporates both improved and unimproved transactions.

Table 14 provides a summary of all data fields included within the Market Trends Back Series Report. The data fields highlighted in grey were utilised within the land cost analysis which informed the Estimated Residential Values per Square Meter assumption. All other data fields were excluded from the analysis underpinning this assumption, however may have been used within related analysis.

Table 14: CoreLogic Market Trends Data Fields

| Category | Metric | Definition |
|----------------------------|--------------------------------------|--|
| General | Property Type | Determines the property type, where H indicates House, U indicates Unit. |
| Underlying Property | Total number of properties | The number of dwellings recorded - data as at the most recent month end (non-delayed) |
| Underlying Property | Average distance from GPO | The average distance from the GPO for properties transacted. |
| Underlying Property | Owner-occupier ratio | % of properties that are defined as Owner Occupied - data as at the most recent month end (non-delayed) |
| Underlying Property | Renter ratio | % of properties that are defined as Rented - data as at the most recent month end (non-delayed) |
| Underlying Property | Government owned ratio | % of properties that are defined as Government Owned - data as at the most recent month end (non-delayed) |
| Listings | # of listings in the last 1 month | The total unique number of properties that have been advertised for sale and captured over the past month. |
| Listings | # of listings in the last 12 months | The total unique number of properties that have been advertised for sale and captured over the last 12 months. |
| Listings | 1 month change in listing volumes | The percentage change in Total listings in the same period compared to 1 month ago. |
| Listings | 3 month change in listing volumes | The percentage change in Total listings in the same period compared to 3 months ago. |
| Listings | 12 month change in listing volumes | The percentage change in Total listings in the same period compared to 12 months ago. |
| Listings | % stock on market last 12 months | The percentage of dwellings that have been listed for sale over the past year. |
| Listings | # of new listings last 12 months | The total number of new listings for properties recorded after 180 days after the last listing over the past year. |
| Listings | # of auction listings last 12 months | The total number of auction listings that have been observed over the past year. |
| Listings | Median time on market last 12 months | The median number of days it has taken to sell those properties sold by private treaty during the last 12 months. The calculation excludes auction listings and listings where an asking price is not advertised. The days on market calculation uses the contract date on the property compared with the first advertised date. |

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| Category | Metric | Definition | |
|----------|--|--|--|
| | Median vendor discount last 12 | The median difference between the contract price on a property and the first advertised price. The figure is | |
| Listings | months | expressed as a percentage and is an average of all private treaty sales which sold for less than their initial | |
| | monus | asking price | |
| Sales | # of sales last 1 month | A count of all transactions over the last month | |
| Sales | # of sales last 3 months | A count of all transactions over the last 3 months | |
| Sales | # of sales last 6 months | A count of all transactions over the last 6 months | |
| Sales | # of sales last 12 months | A count of all transactions over the last 12 months. | |
| Sales | 1 month change in sales volume | The percentage change in sales volumes in the same period compared to 1 month ago. | |
| Sales | 3 month change in sales volume | The percentage change in sales volumes in the same period compared to 3 months ago. | |
| Sales | 12 month change in sales volume | The percentage change in sales volumes in the same period compared to 12 months ago. | |
| Sales | Sales turnover last 12 months | The percentage of total dwellings that have sold over the last 12 months | |
| Sales | # of repeat sales last 12 months | A count of all repeat sale transactions over the last 12 months | |
| Sales | # of new property sales last 12 months | A count of all transactions on properties not previously sold over the last 12 months | |
| Onlan | Madian calconnica last 2 months | The median sale price of all transactions recorded during the 3 month period. Note that sale prices lower than | |
| Sales | Median sales price last 3 months | \$10,000 and higher than \$100,000,000 are excluded from the analysis. | |
| Colos | Madian calca price last 6 months | The median sale price of all transactions recorded during the 6 month period. Note that sale prices lower than | |
| Sales | Median sales price last 6 months | \$10,000 and higher than \$100,000,000 are excluded from the analysis. | |
| Sales | Median sales price last 12 months | The median sale price of all transactions recorded during the last 12 month period | |
| Sales | 3 month change in median sales price | The percentage change in the median sale price in the same period compared to 3 months ago. | |
| Sales | (12 months) | The percentage change in the median sale price in the same period compared to 3 months ago. | |
| Sales | 12 month change in median sales | The percentage change in the median sale prices in the same period compared to 12 months ago. | |
| Sales | price (12 months) | The percentage change in the median sale prices in the same period compared to 12 months ago. | |
| Sales | 36 month change in median sales | The percentage change in the median sale price in the same period compared to the three years ago. | |
| Jaies | price (12 months) | The percentage change in the median sale price in the same period compared to the three years ago. | |
| Sales | 60 month change in median sales | The percentage change in the median sale prices in the same period compared to five years ago. | |
| Sales | price (12 months) | The percentage change in the median sale prices in the same period compared to live years ago. | |
| Sales | 5 year annual compound growth rate in | The compound annual change in median sale price based on the same period compared to 5 years ago. The | |
| Sales | median sales price (12 months) | calculation indicates the average annual growth rate and is expressed as a percentage. | |
| Sales | 10 year annual compound growth rate | The compounding annual change in median sale price based on the same period compared to 10 years ago. | |
| Sales | in median sales price (12 months) | The calculation indicates the average annual growth rate and is expressed as a percentage. | |
| Coloo | 20 year annual compound growth rate | The compound annual change in median sale price based on the same period compared to 20 years ago. | |
| Sales | in median sales price (12 months) | The calculation indicates the average annual growth rate and is expressed as a percentage. | |

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| Category | Metric | Definition |
|--------------------|--|--|
| Sales | 25th Percentile sales price last 12 months | The 25th percentile sale price of sales over the last 12 months. |
| Sales | 75th Percentile sales price last 12 months | The 75th percentile sale price of sales over the last 12 months. |
| Sales | Median repeat sales price last 12 months | The median sale price of all repeat sale transactions recorded during the last 12 month period. |
| Sales | Median new property sales price last 12 | The median sale price of all transactions on properties not previously sold and recorded during |
| Jaies | months | the last 12 month period. |
| Sales | Total sales value last 1 month | The total value of all property transactions recorded over the last month. |
| Sales | Total sales value last 12 months | The total value of all property transactions recorded over the last year. |
| Sales | Average hold period | The average number of years a property has been held between sales. The calculation includes all properties sold over the last year and is the difference between the most recent date of sale and the previous date of sale |
| Sales | Average land size | The average size of land/floor for properties transacted, for houses land size and for units total floor area |
| Valuation Estimate | # of dwellings with valid AVM | The number of properties within the geographical boundary type for which the CoreLogic Hedonic Index model has been able to produce an AVM. |
| Valuation Estimate | Median AVM | The median value of all properties across the geography based on the AVM. |
| Valuation Estimate | 3 month change in median AVM | The percentage change in the median AVM value in the same period compared to the last three months prior. |
| Valuation Estimate | 12 month change in median AVM | The percentage difference between the median AVM value in the same period compared 12 months ago. |
| Valuation Estimate | 36 month change in median AVM | The percentage change in the median AVM value in the same period compared to the three years ago. |
| Valuation Estimate | 60 month change in median AVM | The percentage change in the median AVM value in the same period compared to 5 years ago. |
| Valuation Estimate | Median AVM FSD | The Median Value for all FSD within the geography |
| Valuation Estimate | Minimum AVM | The lowest value of all properties across the geography based on the AVM. |
| Valuation Estimate | 10th Percentile AVM | 10th Percentile for all AVM in the geography |
| Valuation Estimate | 20th Percentile AVM | 20th Percentile for all AVM in the geography |
| Valuation Estimate | 25th Percentile AVM | 25th Percentile for all AVM in the geography |
| Valuation Estimate | 30th Percentile AVM | 30th Percentile for all AVM in the geography |
| Valuation Estimate | 40th Percentile AVM | 40th Percentile for all AVM in the geography |
| Valuation Estimate | 60th Percentile AVM | 60th Percentile for all AVM in the geography |
| Valuation Estimate | 70th Percentile AVM | 70th Percentile for all AVM in the geography |

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| Category | Metric | Definition |
|--------------------|---|---|
| Valuation Estimate | 75th Percentile AVM | 75th Percentile for all AVM in the geography |
| Valuation Estimate | 80th Percentile AVM | 80th Percentile for all AVM in the geography |
| Valuation Estimate | 90th Percentile AVM | 90th Percentile for all AVM in the geography |
| Valuation Estimate | Maximum AVM | The highest value of all properties across the geography based on the AVM. |
| Valuation Estimate | Median equity value | Growth between the last sale price and the current AVM value expressed in dollar terms - data as at the most recent month end (non-delayed) |
| Valuation Estimate | % median equity | The percentage growth between the last sale price and the current AVM value - data as at the most recent month end (non-delayed) |
| Rentals | # of rental listings last 12 months | The number of rental properties listed over the last 12 months. |
| Rentals | Median asking rent last 12 months | The median value of advertised weekly rents captured during the last 12 months. |
| Rentals | 12 month change in median asking rent (12 months) | The percentage change in the median weekly advertised rental rate in the same period compared to 12 months ago. |
| Rentals | 60 month change in median asking rent (12 months) | The percentage change in the median weekly advertised rental rate in the same period compared to 5 years ago. |
| Rentals | Indicative gross rental yield (12 months) | The indicative gross rental yield provides a guide about the gross rental return achieved during the last 12 months. This is calculated at the geography and is based on the annualised rent (Median Asking Rent x 52 (weeks)), divided by the median sale price. |
| Rentals | Median AVM rental yield | The AVM rental yield is calculated at the geography and is based on the annualised rent (Median Asking Rent x 52 (weeks)), divided by the median AVM of those properties advertised for rent. |
| Rentals | Average vacancy rate last 12 months | Percentage of days the average listed property is vacant over the last 12 months |

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